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received  
1-19-87

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

Form Approved  
OMB No. 44-R1387

# MATERIAL SAFETY DATA SHEET

## SECTION I

MANUFACTURER'S NAME FLAMEMASTER CORPORATION / CHEM SEAL DIVISION		EMERGENCY TELEPHONE NO. (818)982-1650
ADDRESS (Number, Street, City, State, and ZIP Code) 11120 SHERMAN WAY, SUN VALLEY, CA. 91352		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS Part A CS 7707
CHEMICAL FAMILY NYLON RESIN	FORMULA N/A	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE NYLON RESIN	8		METALLIC COATINGS		
SOLVENTS ETHYL ALCOHOL	66	1000ppm	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES PHENOLIC RESIN	3		OTHERS		
OTHERS META-CRESOL	4.6				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	170°F	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	0.89
VAPOR PRESSURE (mm Hg.)	40 mm	PERCENT VOLATILE BY VOLUME (%)	70%
VAPOR DENSITY (AIR=1)	1.4	EVAPORATION RATE (Butyl Acetate)	1.6
SOLUBILITY IN WATER	MISCIBLE		
APPEARANCE AND ODOR	CLEAR LIQUID, ETHYL ALCOHOL ODOR		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	70°F	FLAMMABLE LIMITS	LeI	UeI
			3.3	19
EXTINGUISHING MEDIA	CO <sub>2</sub> , DRY CHEMICALS			
SPECIAL FIRE FIGHTING PROCEDURES	DO NOT USE WATER			
UNUSUAL FIRE AND EXPLOSION HAZARDS	FLAMMABLE MIXTURE			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	
EFFECTS OF OVEREXPOSURE      INTOXICATION - DIZZINESS, MAY CAUSE EYE & EAR IRRITATION.	
INGESTION: TOXIC HAZARD RATING OF 2.	
EMERGENCY AND FIRST AID PROCEDURES	
EYES: WASH WITH SOAP AND WATER	INHALATION: REMOVE TO FRESH AIR
INGESTION: SEE A DOCTOR.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	AVOID CONTACT WITH SKIN.
INCOMPATIBILITY ( <i>Materials to avoid</i> )      NONE			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	AVOID CONTACT WITH SKIN.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
BLOT UP WITH RAGS OR ABSORBENT. ORDINARY CLEAN-UP.	
WASTE DISPOSAL METHOD	
SANITARY LANDFILL.	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION ( <i>Specify type</i> )		
VENTILATION	LOCAL EXHAUST      REQUIRED	SPECIAL
	MECHANICAL ( <i>General</i> )	OTHER
PROTECTIVE GLOVES      YES		EYE PROTECTION      SAFETY GLASSES
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING      AVOID PROLONGED BREATHING OF VAPOR	
OR SKIN CONTACT. KEEP IN TIGHT CLOSED CONTAINERS.	
OTHER PRECAUTIONS      STORE BELOW 80°F.	

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME <b>The Chem Seal Corporation</b>		EMERGENCY TELEPHONE NO. <b>(213) 982-1655</b>
ADDRESS (Number, Street, City, State, and ZIP Code) <b>11120 Sherman Way, Sun Valley, CA 91352</b>		
CHEMICAL NAME AND SYNONYMS <b>N/A</b>		TRADE NAME AND SYNONYMS <b>CS 7707 Part B</b>
CHEMICAL FAMILY <b>Nylon</b>	FORMULA <b>N/A</b>	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS <b>Ethyl Alcohol</b>	<b>80</b>	<b>1000 ppm</b>	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	<b>170° F</b>	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	<b>0.89</b>
VAPOR PRESSURE (mm Hg.)	<b>40 mm</b>	PERCENT VOLATILE BY VOLUME (%)	<b>82</b>
VAPOR DENSITY (AIR=1)	<b>1.4</b>	EVAPORATION RATE (_____=1)	<b>1.6</b>
SOLUBILITY IN WATER	<b>miscible</b>		
APPEARANCE AND ODOR	<b>Ethyl Alcohol Odor</b>		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) <b>70° F, Closed Cup</b>	FLAMMABLE LIMITS <b>3.5<sup>U</sup> - 19<sup>U</sup></b>
EXTINGUISHING MEDIA <b>CO<sub>2</sub>, Dry Chemicals</b>	
SPECIAL FIRE FIGHTING PROCEDURES <b>Do not use water</b>	
UNUSUAL FIRE AND EXPLOSION HAZARDS <b>Flammable mixture</b>	

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

1000 ppm in air.

EFFECTS OF OVEREXPOSURE

Capable of causing severe skin and eye burns.

EMERGENCY AND FIRST AID PROCEDURES

For eye contact, flush with water for 15 min. Then see a doctor immediately. For skin contact, wash thoroughly with water.

## SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

X

Avoid contact with skin

INCOMPATIBILITY (Materials to avoid)

None

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS  
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Blot up with rags or absorbent. Ordinary clean-up.

WASTE DISPOSAL METHOD

Sanitary land fill

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

VENTILATION

LOCAL EXHAUST

Required

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

Yes

EYE PROTECTION

Safety Glasses

OTHER PROTECTIVE EQUIPMENT

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid prolonged breathing of vapor or skin contact. Keep in tight closed containers.

OTHER PRECAUTIONS

Store below 80° F.